

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206720003-1

BRADA, Z.; BRADA, M.

"Apparatus for Quantitative Microspectrography." p. 433,  
(CESKOSLOVENSKA FYSIOLOGIE, Vol. 2, No. 4, Dec. 1953, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4  
No. 5, May 1955, Unlc.

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CIA-RDP86-00513R000206720003-1"

## EXCERPTA MEDICA Sec 16 Vol. 5/8 Cancer Aug. 57

2918. BRADA Z. and KOLÁŘ V. Oncol. Inst., Brno *The cellular factor in the sedimentation of erythrocytes (Russian text)* Čsl. Onkol. 1956, 3/3 (192-196) Graphs I  
The authors examined the significance of the cellular factor influencing the sedimentation of erythrocytes in 190 normal and diseased persons. A significant difference exists between the group of normal persons and the group of patients suffering from malignant tumours (after excluding leukaemia and cases with proved metastases to the liver). This difference proves that in malignant tumours the positive cellular factor plays a certain part. This positive cellular factor results chiefly from pulmonary and gynaecological tumours. The experiments of Wuhrmann and Wunderly on the positive cellular factor in leukaemia and hepatic metastases have been confirmed.

HOLOUBEK, Viktor; BRADA, Zbynek

Metabolism of phosphorus in the egg during evolution of the chick embryo. Cesk. onkol. 3 no.4:284-291 1956.

1. Oncological Research Institute, Bratislava and Oncologic Institute, Brno.

(EMBRYO, metabolism,  
phosphorus in chick embryo)  
(PHOSPHORUS, metabolism,  
chick embryo)

Blood proteins. I. The Seibert reaction with tryptophan and perchloric acid. Zbynek Brada (Cancer Inst., Brno, Czechoslovakia). *Chem. Listy* 1, 374-7 (1956) (in English). A modified procedure is described for the Seibert (S., et al., *J. Am. Chem. Soc.* 43, 1169) tryptophan-HClO<sub>4</sub> reaction for glycoproteins that gives much more reproducible results than the original method. H. B. Collier

*✓ Metabolism of phosphorus in the egg during evolution of the chick embryo.* Viktor Holoubek and Zbyněk Brada (Oncol. Research Inst., Bratislava, Czech. Československý onkol. 3, 284-91(1968)(in English).—Metabolism of the individual P fractions in the white, yolk, amniotic and allantoic fluids, and membranes was followed during the period between incubation and the 20th day. Yolk membranes, lipide P fractions, is the principal source of P for the making up of P compounds in the embryo. The white has a constant amt. of P. Both yolk and white are resolved in a uniform manner without selective decrease in any P fraction. Their transformation does not take place until in the yolk sac and more markedly in the embryo. In the embryo and membranes the amt. of acid-sol. P compds. and nucleic P increases continually, whereas that of lipide and protein P decreases. Increase in the amt. of acid-sol. P present in the embryo is especially marked after the 15th day of incubation. Interrelations of these phenomena are discussed.

*L. L. Ulrich*

BRADA, Zbynek

KOJAROVA, Marie; BRADA, Zbynek

Biochemistry of the blood in cancer. III. On the acid denaturation  
of haemoglobin. Neoplasma. Bratisl. 4 no.2:118-124 1957

1. Oncological Institute, Brno. Address: Dr. M. Kolarova, Dr. Z. Brada,  
Brno, Zluty kopec, Onkologicky ustav.  
(NEOPLASMS, blood in  
acid denaturation of hemoglobin)  
(HEMOGLOBIN  
acid denaturation in neoplasma)

BRADA, Z.

Baker

Z. Brada, "Chromatographie von Fibrinogen an einer Calciumphosphatsaeule,"  
Die Naturwissenschaften (Berlin), 44/21, November 1957, p. 561.

Received on 2 September 1957.

The author is affiliated with the Biochemical Department of the Cancer  
Institute in Brno.

BRADA, Z.

EXCERPTA MEDICA Sec.2 Vol.11/5 Physiology, etc. May 58

1984 STUDIES ON BLOOD PROTEINS. V. RELATION OF MUCOPROTEINS TO  
THE POLAROGRAPHIC TEST ACCORDING TO BRDIČKA - Kocent A.,  
Brada Z. and Boskova I. Cancer Inst., Brno - CLIN. CHIM. ACTA  
1957, 2/6 (508-516)

In comparing Brdička's test without alkalization with the standard Brdička's test involving alkaline denaturation of proteins, it was found that after the action of alkali the content of all the mucoprotein components in the filtrates decreases significantly as do also the correlation coefficients between these components and the height of the filtrate wave in Brdička's test. It is probable that the wave produced in the Brdička test without alkalization is for the greater part caused by mucoproteins. The increase in the filtrate wave after the action of the alkali is not connected with mucoproteins. This increase is ascribed to a non-mucoprotein substance and its activity is estimated as forming half of the total polarographic activity of the filtrate.

CZECHOSLOVAKIA/Chemical Technology. Chemical Products H  
and Their Uses. Part IV. Artificial  
and Synthetic Fibers.

Abs Jour : Ref Zhur-Khimiya, No 15, 1958, 52266

Author : Brada, Zd.

Inst : -

Title : Cellophane Bonding.

Orig Pub : Obaly, 1957, 3, No 5, 131

Abstract : For a non-mechanical cellophane bonding,  
an adhesive of the following composition  
was used: 37 g gelatine, 11 g anhydrous  
 $\text{CaCl}_2$ , and 52 g  $\text{H}_2\text{O}$ . For mechanical bon-  
ding, a glue consisting of 23 g gelatin,  
12 g anhydrous  $\text{CaCl}_2$  and 65 g  $\text{H}_2\text{O}$  was re-  
commended.  $\text{CaCl}_2$  prevents gel formation

Card : 1/3

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CZECHOSLOVAKI./Chemical Technology. Chemical Products H  
and Their Uses. Part IV. Artificial  
and Synthetic Fibers.

Abs Jour : Ref Zhur-Khimiya, No 15, 1958, 52266

which is desirable since the gel does not possess bonding properties. In order to prepare the adhesive, a specific amount of CaCl<sub>2</sub> was dissolved in cold water; then powdered gelatin was added gradually, while the solution was stirred constantly. After 12 hours of aging, a viscous, transparent, yellow liquid was formed, which was ready for use. The addition of octanol (0.5 percent) tended to suppress foam formation upon bonding, while the addition of insecticides prevented bacterial decomposition of the glue upon storage. In addition to

Card : 2/3

CZECHOSLOVAKIA/Chemical Technology. Chemical Products H  
and Their Uses. Part IV. Artificial  
and Synthetic Fibers.

Abs Jour : Ref Zhur-Khimiya, No 15, 1958, 52266

gelatin based adhesives, a glue consisting  
of 30 g gum arabic, 30 g glycerine, and 40  
g H<sub>2</sub>O could be used for cellophane bonding.  
-- B. Vol'fson

Card : 3/3

145

EXCERPTA MEDICA SEE TO VOL 7/1 Cancer van 27

161. *Biochemistry of the blood in cancer. III. On the acid denaturation of haemoglobin* KOLOKOVA M. and BRADA Z. Oncol. Inst., Brno Neoplasma 1957, 4/2 (118-124) Graphs 5  
Tables 1

The kinetics of acid denaturation of Hb were followed spectrophotometrically in the Hb of healthy persons and of patients with tumorous anaemia and leukaemia. The reaction velocities of acid denaturation showed significant differences between the 2 groups.

Kelényi - Pécs

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CZECHOSLOVAKIA / Laboratory Equipment, Instruments, Theory, Construction, Use.

Abs Jour : Ref Zhur - Khim., No 15, 1958, No 50138

Author : Kocont, Alexandra; Brada, Zbynok; Koil, Borivoj.

Inst : Not given

Title : Gravimetric Fraction Collector for Chromatography.

Orig Pub : Chom. listy, 1957, 51, No. 8, 1575-1576.

Abstract : An electromagnetic arrangement, which enhances the reliability of the work of a gravimetric filter collector of fractions, is described. -- M. Ryba.

Card 1/1

EXCERPTA MEDICA Sec 16 Vol 7/9

Cancer Sept 59

\*3621a. Study of tumour host relationship. I. On interrelation between haemoglobin concentration and tumour growth BRADA Z. Oncol. Inst., Brno  
*Neoplasma* 1959, 6/2 (132-137) Graphs 2 Tables 1

The anaemia-provoking effect of cancerogenic substances is stressed. On the basis of the results of viviperfusion the conclusion is reached that the haemoglobin concentration in rats with malignant tumours is the logarithmic function of the weight of the tumour compared to the weight of the animal. In the first stage a substantial reduction of the haemoglobin level is found, in the second stage this level becomes higher, in the third stage it sinks again and finally definite tumour anaemia is observed.

Klein - Bratislava (XVI, 5)

BRADA, Z.

Host-tumour relationship. Part II. Non-haemin iron in the organism  
with transplanted tumour. Neoplasma, Bratisl. 6 no.3:236-248 1959.

1. Oncological Institute, Brno, CSR.  
(NEOPLASMS metab.)  
(IRON metab.)

BRADA, Z.

On certain experiences with technics for the transplantation  
of frozen tumor material. Neoplasma, Bratisl. 7 no.1 suppl:18-22 '60.

(NEOPLASMS exper)

BRAJD, Z.

Host-tumour relationship. Part III. Distribution of haemoglobin  
in the organism with transplanted tumour. Neoplasma, Bratisl. 7  
no.1:31-41 '60.

1. Oncological Institute, Brno, CZECH.  
(HEMOGLOBIN)  
(NEOPLASMS exper.)

BRADA, Z.

Host-tumour relationship. IV. Haemoglobin distribution in organs  
of the rat in the course of haemolytic anaemia induced by  
phenylhydrazine. Neoplasma, Bratislava, 1960, 2:161-166 '60.

1. Biochemical Department, Oncological Institute, Brno, C.S.R.  
(HYDRAZINES toxicol)  
(ANEMIA HEMOLYTIC expr)  
(HEMOGLOBIN)

PECHAN, Z.; BRADA, Z.

Host - tumour relationship. V. Hexosamine distribution in rat organs in dependence on growth of the BS tumour. Neoplasma, Bratisl.7 no.4:366-376 '60.

1. Oncological Institute, Brno, Czechoslovakia.  
(AMINO SUGARS metab)  
(NEOPLASMS exper)

DOLEZALOVA, V.; BRADA, Z.

The host-tumor relationship. VI. Release of proteins by tumor cells  
in vitro. Neoplasma 8 no.5:501-508 '61.

1. Onkologisches Forschungsinstitut, Arbeitsstelle Tschechoslowakei.  
(NEOPLASMS exper) (PROTEINS chem)

TOBISKA J.; BRADA, Z.

Relationship between the host and the tumour. VIII. Extramedullary haemopoiesis during the growth of the BS tumour. Neoplasma 9 no.4: 435-444 '62.

1. Institute of Oncological Research, Branch of Brno, CSSR.  
(HEMATOPOIESIS) (NEOPLASMS, EXPERIMENTAL)

TOBISKA, J.; BRADA, Z.

Host - tumour relationship. IX. The erythropoietic activity of rat plasma in the course of the growth of the Jensen tumour as studied by means of  $^{59}\text{Fe}$ . Neoplasma 10 no.6: 597-603 '63.

1. Cancer Research Institute, Department of Biochemistry, Brno, Czechoslovakia.

\*

TOBISKA, J.; BRADA, Z.; KOCENT, A.; PECHAN, Z.

Host-tumour relationship. X. The role of the liver in serum glycoprotein synthesis during the course of experimental inflammation. Neoplasma 11 no.1:3-12 '64.

Host-tumour relationship. XI. The role of the liver in the synthesis of serum glycoproteins during the course of growth of Jensen's sarcoma.

1. Cancer Research Institute, Department of Biochemistry, Brno, Czechoslovakia.

\*

DOLEZALOVA, V.; BRADA, Z.; KOCENT.A.

Host-tumour relationship . XII. Proteins of normal rat serum. Neoplasma 11 no.2:151-163 '64

1. Cancer Research Institute, Department of Biochemistry,  
Brno, Czechoslovakia.

DOLEZALOVA, V.; BRADA, Z.; KOCENT, A.

Host - tumour relationship. XIII. Proteins, mucoproteins and their saccharide components in the serum and ascitic fluid of rats in the course of growth of Yoshida Ascitic sarcoma. Neoplasma (Bratisl.) 11 no. 3:257-268 '64

1. Cancer Research Institute, Department of Biochemistry, Brno, Czechoslovakia.

BRADA, Z.

Host-tumor relationship XIV. Anaemia and haemoglobin distribution in rats with tumours induced by Benzpyrene. Neoplasma (Bratisl.) 11 no.4:353-360 '64.

1. Cancer Research Institute, Department of Biochemistry, Brno, Czechoslovakia.

DOLEZALOVA, V.; BRADA, Z.; KCCENT, A.; HEKELOVA, J.

Host--Tumour relationship. XV. Comparison of Proteins in the  
blood and ascites serum of rats with Yoshida ascites tumour.  
Neoplasma (Bratisl.) 11 no.4:361-369 '64.

1. Cancer Research Institute, Department of Biochemistry, Brno,  
Czechoslovakia.

↓

BRADA, Z.; TOBISKA, J.

Host--Tumour relationship. XVI. Heterogeneity of rat haemoglobin.  
Neoplasma (Bratisl.) 11 no.4:371-378 '64.

1. Cancer Research Institute, Department of Biochemistry, Brno,  
Czechoslovakia.

TOBISKA,J.; BRADA, Z.

Host-tumour relationship. XVIII. Pathophysiology of rat haemoglobin during the course of the growth of Jensen rat sarcoma. Neoplasma (Bratisl.) 11 no.6:585-590 '64

1. Cancer Research Institute, Department of Biochemistry, Brno, Czechoslovakia.

KOLAROVA, N.; BRADA, Z.; TOBISKA, J.

Host - tumour relationship. XIX. Heterogeneity of the rat serum inhibitor of trypsin and its concentration in the course of some pathological processes including experimental cancers. Neoplasma (Bratisl) 12 no. 2:173-185 '65

1. Cancer Research Institute, Department of Biochemistry, Brno, Czechoslovakia.

KOLAROVA, M.; BRADA, Z.; PECHAN, Z.

Hexosamine containing substances in cancer. Part 6. Neoplasma  
(Bratisl.) 12 no.4:379-383 '65.

1. Cancer Research Institute, Department of Biochemistry, Brno,  
Czechoslovakia. Submitted November 19, 1964.

BRADAC B.

3

Production of Cast Steel in Small Converters. B. Brndáć M  
and K. Vočera. (Sílverenstv, 1955, 3, (2), 42-44). [In Czech]. G  
By a triplex method, utilizing the cupola, the  $\frac{1}{2}$ -ton converter,  
and the basic electric-arc furnace, steels of the highest quality  
can be efficiently and economically produced. The features,  
advantages, and disadvantages of the method, and the  
chemistry of the conversion, in both basic and acid converters,  
are discussed.—P. R.

①  
D. J. H.

BRADAC, B.

Cast steel production in small converters, p. 42, SLEVARENSTVI  
(Ministerstvo strojirenstvi a Ministerstvo hutniho prumyslu a  
rudnych dolu) Praha, Vol. 3, No. 2, Feb. 1955

SOURCE: East European Accessions List (EEAL) Library of Congress,  
Vol. 4, No. 12, December 1955

BRADAC, B.

Machine core production in foundries. p. 6.

SLEVARENSTVI. (Praha, Czechoslovakia, Vol. 7, no. 1, Jan. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 7, July 1959  
unclu.

BRADAC, B.

Use of chemically coated molding sand with precipitated chalk in aluminum foundries. p. 17.

SLEVARENSTVI. Praha, Czechoslovakia Vol. 7, no. 1, Jan. 1959.

Monthly list of East European Accesions (EEAI), LC, Vol. 8, no. 7, July 1959  
unclu.

ERADAC, B.

Production of cores on shooting machines. p. 91.

SLEVARENSTVI. Praha, Czechoslovakia, Vol 7, no. 3, Mar. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 7, July 1959  
unclu.

BRADAC, B.; PRCHAR, V.

Mechanization and automation of core production. p. 253.

SLEVARENSTVI. (Ministerstvo tezkeho strojirenstvi a Ceskoslovenska vedecka technicka spolecnost pro hutnictvi a slevarenstvi) Praha, Czechoslovakia. Vol. 7, no. 7, June 1959.

Monthly List of East European Accession, (EEAI), LC, Vol. 8, No. 12, Dec. 1959  
Uncl.

BRADAC, J.

The study of foreign technical literature on electrical engineering.

P. 16. (SDELOVACI TECHNIKA) (Praha, Czechoslovakia) Vol. 6, no. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

FIALA, Jaroslav, inz.; BRADAC, Jindrich, inz.

Ascertaining the radio frequency power of transmitters by measuring  
the temperature difference of air passing through the dummy load.  
Slaboproudý obzor 21 no.11:646-648 N°60. (EEAI 10:2)

1. TESLA Hloubetin narodni podnik  
(Radio)

BRADAC, Jiri

A simple method of electrophoretic preparation of blood serum albumin on agar gel. Chem listy 56 no.11:1355-1356 N '62.

1. Biofysikalni ustav, Fakulta vseobecneho lekarstvi, Karlova universita, Praha.

BRADAC, O; BRACHFELDOVA, J; JIRIKOVA-PESINOVÁ, D.

Mortality in children within 24 hours after admission into the hospital. Pediat. listy, Praha 7 no.2:97-102 Mar-Apr 1952.

(CIML 22:2)

1. Of the Second Pediatric Clinic (Head--Prof. J. Brdlik, M. D.)  
of Charles University, Prague.

BRADAC, Otto, Dr; PROCHAZKOVA, Ruz., Dr; SEDLAK, Jiri, Dr

Epidemic of fatal Pseudomonas aeruginosa diarrhea in newborn infants. Pediat. listy, Praha 9 no.4:229-234 June-Aug 54.

l. Z detskeho odd. KUMZ Liberec prim. Dr O.Bradac a z byv. II.  
odb. SZU Praha, predn. doc. Dr K.Raska.

(PSEUDOMONAS INFECTION, in infant and child,  
aeruginosa, diarrhea in newborn inf.)

(DIARRHEA, in infant and child,  
newborn, Pseudomonas aeruginosa diarrhea)

(INFANT, NEWBORN, diseases,  
Pseudomonas aeruginosa diarrhea)

BRADAC, Otto, Prim. Dr

Liberec region as the second lowest area in Czechoslovakia in  
infant mortality in 1953. Prakt. lek. 34 no.9:212-214 My '54.

1. Detske oddeleni KUNZ, Liberec.  
(VITAL STATISTICS,  
\*inf. mortal., Czech.)

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*BRADAC, O.Dr.*

BRADAC, O.Dr; VELNEROVA, M.; ZAKOVSKA, J.

A Polish Journey. Cesk. pediat. 10 no.1:57-61 Feb 55.  
(INFANT WELFARE  
in Poland, report of journey)

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BRADAC, Prim.Dr., Liberec.

Problem of pediatric nurses. Česk.pediat. 10 no.4:313-314 May 55.  
(NURSING PROFESSION,  
in Czech., pediatric nurses)

KOLIN, J.; BRADAC, O.; GLOSOVA, J.

Retinopathies in prematures; retrolental fibroplasia. Cesk.  
oft. 12 no.3:198-201 June 56.

1. Z ocniho odd. KUNZ v Liberci, prednosta prim. Dr. J. Teissler,  
a z kojeneckeho oddeleni KUNZ v Liberci, prednosta prim. Dr.  
O. Bradac.

(RETROLENTAL FIBROPLASIA,  
(Cz))

BRADAC, O.; BROZ, O.

Contribution of staphylococcal infections to infant mortality.  
Cesk. pediat. 12 no.2:97-103 Feb 57.

1. Detske oddeleni KUMZ v Liberci. Prednosta prim. Dr. Otto Bradac.  
Patologickoanatomicky ustav KUMZ v Liberci. Prednosta prim. Dr.  
Otto Broz.

(MICROCOCCAL INFECTIONS, in inf. & child  
mortal. statist. in Czech. (Cz))

BRADAC, O., GLOSOVA, J.

Staphylococcal pneumonia. Cesk. pediat. 12 no.3:198-208  
Mar 57.

1. Detske oddeleni KUMZ v Liberci. Prednosta prim. Dr. O. Bradac.  
(MICROCOCCAL INFECTIONS, in inf. & child  
pneumonia, physiopathol. & ther. (Cz))  
(PNEUMONIA, in inf. & child  
micrococcal, physiopathol. & ther. (Cz))

SEIFERT, L.; BRADAC, O.; POLAKOVA, H.

Oral tetrachloroethylene poisoning in 41 children. Cesk. pediat. 14 no.1:  
48-54 5 Jan 59.

1. II. detska klinika v Praze, prednosta prof. dr. J. Houstek, Detske  
odd. KUNZ v Liberci, prednosta prim. dr. O. Bradac L. S., II. detska  
klin., Sokolska 2, Praha 2.

(TETRACHLOROETHYLENE, pois.  
in child., case reports (Cz))

BRADAC, Otto, Dr. (Praha VII, Veletrzni 6)

Role of prematurity in the birth rate & infant death rate in Liberec  
county from 1953 to 1956. Cesk. pediat. 14 no.6:555-564 5 June 59.

(INFANT MORTALITY

neonatal & premature in Czech. (Cz))

(VITAL STATISTICS

birth rate in Czech., relation of prematurity (Cz))

BRADAC, O.; BROZ, O.; POLAKOVA, H.

Staphylococcal infections & their role in the mortality rate in Liberec County in 1953-1957. Cas. lek. cesk. 98 no.22:681-687 29 May 59.

1. Detske oddeleni KUNZ v Liberci, prednosta prim. dr Otto Bradao. Patologicku ustav KUNZ v Liberci, prednosta prim. dr. O. Broz. O.B. Praha\7, Veletzni 6.

(MICROCOCCAL INFECTIONS, epidemiol.  
in Czech., role in mortal. rate (Cz))

BRADAC, O.; POLAKOVA, H.

Analysis of 275 pediatric admissions with staphylococcal infections  
in 1956-1957. Cas. lek. cesk. 98 no.22:687-694 29 May 59.

1. Detske oddeleni KUNZ v Liberci, prednosta prim. dr. Otto Bradac.  
O.B. Praha 7, Veletrzní 6.

(PEDIATRIC DISEASES, statist.

micrococcal infect. hosp. admissions (Cz))

(MICROCOCCAL INFECTIONS, in inf. & child  
hosp. admissions (Cz))

BRADAC, Otto, MUDr.

Documentation in the regional system of child care. Cesk.zdravot.  
8 no.9:525-530 S'60.

1. Vyzmumny ustav organizace zdravotnictvi v Praze.  
(CHILD WELFARE)

BRADAC, Otto

Dispensary services in pediatrics. Cesk. pediat. 16 no.4:367-371  
Ap '61.

1. Vyzkumny ustav organizace zdravotnictvi v Praze, reditel MUDr.  
Rudolf Palec.

(PEDIATRICS)

BRADAC, O.; PROCHAZKOVA, Z.; SESINOVÁ, D.; VINCENC, J.

A year's study on the district system of child care in rural districts practicing pediatrics. Česk. pediat. 18 no.6:542-549 Je '63.

1. Vyzkumny ustav organizace zdravotnictvi v Praze OUNZ v Teplicich - OUNZ v Kladne - OUNZ v Bruntale.  
(PEDIATRICS) (RURAL HEALTH) (CHILD CARE)  
(CHILD WELFARE)

BRADAC, O.

Number of inhabitants, density and number of inhabitants served by one physician in different countries. Cesk. pediat.19  
no.3:276-278 Mr\*64

1. Vyzkumny ustav organizace zdravotnictvi, Praha.

BRADAC, O.

It is possible to decrease our infant mortality? Cesk. pediat.  
19 no.9:855-863 S '64.

SMADL, Jan; AUSBERGER, Frantisek; STARY, Václav; ZEMAN, Miloslav; SIKL, Václav; BRADAC, Svatopluk

Control of railroad operations in a coalfield district. Zel doj tech 13 no.1:Suppl:1-8 '66.

1. Head of the Unit of Operations, Dati nad Labem (for Smadl).
2. Director of the No. ... District Lignite District (for Ausberger).
3. Head of Transportation Service of the Doly Vitezneho uro National Enterprise (for Stary).
4. Director of the Doly Vitezneho uro National Enterprise, Komorany (for Zeman).
5. Head of Transportation Service of the Coal Preparation Plant, Komorany (for Bradac).
6. Chief of the Most Railroad Junction (for Sikl).

BRADAC, Viktor

Advance of the Institute of Electronics and Automation in the  
field of vacuum technics. Nova prozv 13 no.1:85-88 '62.

MACUCH, P., doc.mudr.; BRADACEK, Fr., mudr.

Starting level of health services in the Republic of Guinea.  
(Analysis of data obtained during a study trip). Cesk.epidem.  
mikrob.imun. 9 no.1:52-64 Ja '60.  
(PUBLIC HEALTH)

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BRADACOVA, Marie, MUDr; MIROVSKY, Jiri, MUDr

Atypical course of measles after preventive application of gamma globulin and mixed human plasma. Pediat. listy, Praha 9 no.3: 149-150 May-June 54.

1. Z infekt. klin. v Praze; predn. prof. MUDr Jaroslav Prochazka  
(MEASLES, manifestation  
atypical course after prev. application of gamma globulin with mixed human plasma)  
(GAMMA GLOBULIN, effects  
on measles, atypical course after application with mixed human plasma)  
(PLASMA, effects  
on measles, atypical course after prev. application with gamma globulin)

~~BRADACOVA, Marie, MUDr~~

Prevention of measles. Pediat. listy, Praha 9 no.6:352-354 Dec 54.

1. Infekcni klinika Boleska; prednosta prof. Dr. J.Prochazka  
(MEASLES, prevention and control)

*BRADÁČOVÁ, M.*

**EXCERPTA MEDICA Sec.7 Vol.11/3 Pediatrics Mar 57**

799. **BRADÁČOVÁ M., MÁLKOVÁ N. and MIROVSKÝ J.** Infekční Klin., Praha.  
\*Proč je nutno očkovat proti tetanu. Why is antitetanus inoculation  
necessary? ČSL. PEDIAT. 1955, 10/8 (605-609) Tables 2  
The authors briefly discuss current therapeutic measures in tetanus. They report  
their own experiences (50 cases with 29 fatal endings). With only one exception,  
the wounds causing tetanus were so inconspicuous as not to lead to medical attention,  
therefore active immunization seems the only way of preventing tetanus.

Saxl - Brno (XX, 7, 17)

KREDBA, V.; BRADACOVA, M.

Hormone therapy of infectious hepatitis in children. Cesk. pediat.  
13 no. 7:577-582 Aug 58.

1. Infekcni klinika hygienicke fakulty (doc. dr. V. Kredba) a III.  
infekcni oddeleni na Bulovce. (prim. dr. M. Bradacova). V. K., Praha  
8, Bulovka.

(HEPATITIS, INFECTIOUS, in inf. & child  
ther., ACTH, cortisone & prednisone, statist (Cz))  
(ACTH, ther. use  
infect. hepatitis in child (Cz))  
(CORTISONE, ther. use  
same)  
(PREDNISONE, ther. use  
same)

KOTTOVA, A.; ERADACOVA, M.

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Braadeanu, Petru. L'équation du pendule mathématique de masse variable. Acad. R. P. Romine, Fil. Cluj, Stud. Cerc. Mat. Fiz. 7 (1956), no. 1-4, 65-77. (Romanian. Russian and French summaries)

Dans le cas le plus simple il s'agit de l'équation  $\ddot{\theta} + (1/m)\dot{m}\dot{\theta} + (g/l)\theta = 0$ ; pour  $m = m_0(1 - \alpha t)$  l'intégration se fait par la fonction  $J_0$  de Bessel. Généralisation: le pendule de masse variable dans un milieu résistant.

O. Bottema (Delft)

$\bar{\omega}$   
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31/IV

S/269/63/000/003/036/036  
A001/A101

AUTHOR: Brădeanu, Petre

TITLE: One variational problem of motion of a variable-mass point.  
Application to a rocket

PERIODICAL: Referativnyy zhurnal, Astronomiya, no. 3, 1963, 81, abstract  
3.51.601 ("Studia Univ. Babeş-Bolyai, Math.-phys.", 1961, no. 1,  
193 - 205, Rumanian; Russian and French summaries)

TEXT: The author considers the motion of a point of variable mass in a plane-parallel gravitational field in the absence of aerodynamical forces. It is required that the area subtended by the trajectory during a given time period, should be the largest. It is maintained that the reactive force, acting upon the point, should be central one, and the laws of changes of this force and of the point mass are found.

From author's summary

[Abstracter's note: Complete translation]

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AUTHOR: Brădeanu, Petre

TITLE: Some considerations on rocket trajectories

PERIODICAL: Studii și cercetări de mecanică aplicată, no. 1,  
1961, 27 - 39

TEXT: The article deals with accurately determining a rocket trajectory in the variable gravitational field of the Earth at high altitudes, assuming that the thrust is radial, variable and known, and that the initial launching conditions are also known as a function of the operational characteristics and rocket structure. The author uses the following notations:  $\vec{r}$ : location vector with the origin in the center of the Earth;  $\vec{v}$ : absolute rocket velocity;  $\vec{w}$ : relative gas ejection velocity;  $m$ : mass of the rocket;  $o$ : the index zero denotes the value of the magnitudes at the initial moment;  $1$ : index one denotes the value of the magnitudes at the end of the gas combustion;  $M$  and  $R$ : mass and radius of the Earth;  $c$ :

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constant of the areas;  $\mu$ : gravitational coefficient of the Earth,  
 $\mu = gR^2$ . Considered is the motion equation of a point of variable mass

$$m \frac{d\vec{v}}{dt} = \vec{F} + \frac{dm}{dt} \vec{w} \quad (1) \quad (1)$$

in which

$$\vec{w} \frac{dm}{dt} = \vec{\Phi} \quad (2) \quad (2)$$

is the thrust. It is assumed that the active force  $\vec{F}$  is Newton's gravitational force exerted by the Earth on the bodies around it.  $\vec{F}$  is a central force. Also assuming that the thrust  $\vec{\Phi}$  is radial the author establishes the hypotheses

$$\vec{F} = -f \frac{Mm}{r^2} \vec{r}, \quad \vec{\Phi} = -\frac{dm}{dt} \vec{w} \frac{\vec{r}}{r}; \quad \left( w > 0, \frac{dm}{dt} < 0 \right). \quad (3) \quad (3)$$

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The formula of the mass variation is expressed by

$$m = m_0 e^{-\alpha t} \quad (7)$$

The hypotheses (3) and (7), as well as  $w = \text{constant}$ , are admitted and applied both in the theoretical and practical rocket engineering. Rockets with constant acceleration were studied by N.S. Tsien (Ref. 2: Issledovaniye optimal'nykh rezhimov dvizheniya raket (Study of optimum rocket operating conditions), Oborongie, 1959, 248-258) and D. Lawden (Ref. 6: C. Iacob: Asupra unor condiții necesare transformării în sateliți ai Pământului a corpurilor lansate de pe Pămîni (On the Conditions Necessary for Transforming into Earth Satellites Bodies Launched from the Earth) G.M., 5, Bucharest, 1949). On the basis of (7) the author establishes the equations of the rocket's trajectory

$$\frac{d^2}{d\theta^2} \left( \frac{1}{r} \right) + \frac{1}{r} + \frac{\alpha w}{\sigma^2} r^2 = \frac{\mu}{\sigma^2}. \quad (8)$$

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in which  $r$  and  $\theta$  are the polar coordinates and  $\alpha$  the specific flow rate of the gas. This equation also represents a slight generalization of the Binet equation, applied to the case of a point of constant mass. It is also assumed that the rocket starts from an initial position  $P_0$  ( $r_0$ , 0) with a  $\vec{v}_0$  velocity, which forms an angle  $\beta_0$  with the  $r_0$  polar axis. The integral of Eq. (8) which satisfies these initial conditions is expressed by

$$\frac{\sqrt{2\alpha w}}{c} \theta = \int_{r_0}^r \frac{dr}{r \sqrt{r^2 + \frac{Kc^2}{2\alpha w} r^2 + \frac{\mu}{\alpha w} r - \frac{v_0^2}{2\alpha w}}}, \quad (9)$$

in which  $K$  is a constant having the shape of  $K = \frac{h}{c^2}$ , where

$h = v_0^2 - \frac{2\mu}{r_0} - 2\alpha w r_0$ ;  $c = r_0 v_0 \sin \beta_0$ . Applying the energy equation the author obtains the velocity expression:

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$$v^2 = c^2 \left\{ \left[ \frac{d}{d\theta} \left( \frac{1}{r} \right) \right]^2 + \frac{1}{r^2} \right\} = \frac{2\mu}{r} + 2\alpha w r + v_0^2 - \frac{2\mu}{r_0} - 2\alpha w r_0, \quad (10)$$

whence Eq. (8) may be easily deduced, as well as the significance of the constant  $h$ . The integral Eq. (9) is in the arbitrary conditions  $\alpha \neq 0$  and  $w \neq 0$  elliptic. Using the substitution

$$r = (t^2 + 1)^{1/2} q - \frac{h}{6\alpha w}, \quad (12)$$

the author obtains from (9):

$$\frac{\sqrt{2\alpha w q}}{2c} \theta = \int_{t_0}^t \frac{dt}{(t^2 - n)^{1/2} P(t)}, \quad (13)$$

in which  $h = \pm 2\sqrt{3}\mu\alpha w$ . With the change of variables

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$$t = \frac{1}{4} \frac{1-z}{1+z} \quad (20)$$

the polynomial  $P(t)$  and Eq. (13) becomes:

$$P(z) = \frac{4(3 - \lambda^2 \sqrt{3})}{(1+z)^4} (z^2 + A)(z^2 + \frac{1}{A}) \quad (21)$$

and

$$-\frac{\sqrt{2\omega_0}}{c\lambda} \theta = \int_{z_0}^z \frac{G(z) dz}{\sqrt{(z^2 + A)(z^2 + \frac{1}{A})}} \quad (22)$$

$$\text{in which } A = \frac{\sqrt{3} - \lambda^4 \sqrt{3}}{\sqrt{3} + \lambda^4 \sqrt{3}}, \quad \lambda^r = \frac{2}{4\sqrt{3}(3 - \lambda^2 \sqrt{3})^{1/2}}, \quad G(z) = \frac{1}{(\frac{1-z}{1+z})^2 - \frac{n}{\sqrt{3}}}.$$

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From Eq. (22), the author deduces

$$\begin{aligned} -\frac{\sqrt{2\alpha w q}}{c\lambda^*} \theta = & \frac{2}{a^2} I(z, z_0) - \frac{\sqrt{A}}{a} \int_{z_0}^z \frac{dx}{\sqrt{(1-x^2)(1-k^2X^2)}} + \\ & + \left( \frac{a^2(1-A^2)}{A^2 n \left( b - \frac{b_1}{a} \right)} \right)^{-1} \int_{\eta_0}^n \frac{\left( \eta^2 - \frac{1}{k^2} \right) d\eta}{(\eta^4 + \gamma\eta^2 + \delta) \sqrt{(1-\eta^2)(1-k^2\eta^2)}}, \end{aligned} \quad (24)$$

in which  $\gamma$ ,  $\delta$ ,  $\frac{b_1}{a}$ , and  $I(z, z_0)$  are expressed by

$$\gamma = \frac{b_1 A - 2a^2}{a^2(1-A^2)}, \quad \delta = \frac{A(A + \frac{1}{A} - \frac{b_1}{a^2})}{(1-A^2)^2}, \quad \frac{b_1}{a^2} = -2 \left[ 1 + \frac{8n/\sqrt{3}}{\left( 1 - \frac{n}{\sqrt{3}} \right)^2} \right], \quad (25)$$

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$$I(z, z_0) = \int_{z_0}^z \frac{(z^4 + 1) dz^4}{(z^4 + \frac{b_1}{a^2} z^2 + 1) \sqrt{(z^4 + A)(z^4 + \frac{1}{A})}}. \quad (25)$$

The trinomial  $\eta^4 + 2\eta^2 + \delta$  is a perfect square if  $b_1 = 4a^4$ , or  $b_1 = 2a^2$ , or  $(n + \sqrt{3})^2 = 0$ , or  $n = -\sqrt{3}$ , i.e.  $\sin^2 \beta_0$ :

$$\sin^2 \beta_0 = \left[ \frac{1}{(\sqrt{3}-1)^2} - 1 \right] \frac{2\alpha w}{r_0^2 v_0^2} \left( \frac{\mu}{3\alpha w} \right)^{1/2}, \quad (26)$$

is the equation which supplies the values of the angle of the initial launching velocity. The author then deduces from (24)

$$-\frac{\sqrt{2\alpha w q}}{c\lambda^2} \theta = \frac{2}{a^2} I(z, z_0) - \frac{\sqrt{A}}{a} \left[ \left( \frac{a(1-A^2)}{A(b-\frac{b_1}{a})} \right)^{-1} \left( \frac{c_1 k^2 - 1}{c_1^2 k^2} \right) - \right. \quad (29)$$

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$$\left[ -\frac{1}{c_1} + 1 \right] [F(X, k) - F(X_0, k)] - \frac{\sqrt{A}}{a} \left( \frac{a(1-A^2)}{A(b-\frac{b_1}{a})} \right)^{-1} \left\{ \frac{c_1 k^3 - 1}{c_1^4 k^6} [\Phi_1(F, E) - \right. \\ \left. - \Phi_1(F_0, E_0)] + \frac{c_1 k^3 - 2}{c_1^4 k^4} [\Phi_2(F, E) - \Phi_2(F_0, E_0)] \right\} \quad (29)$$

in which the right hand side includes only the elliptic integrals of the I. and II. species, for whose calculation there exist tables. A table is given showing the variation type of  $r$  with  $X$ , in which  $X'$  and  $X''$  are the roots of the  $dr/dX$  derivatives. Eq. (7) showed that the rocket's mass is completely consumed only within an infinite time. Assuming that the rocket's mass varies over a sufficiently great time,  $X$  will oscillate between 0 and 1, thus the rocket will move away from the Earth to a distance  $r_{max}$ , returning towards the Earth attaining the distance  $r_{min}$ , again mov-

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ing away, and finally returning into the initial position. If  $r_{\min} < R$ , the rocket hits the Earth. In case the gas consumption stops at  $r = r_{\max}$ , the angle  $\theta$  may be calculated from (29). However, the gas combustion stops before  $r$  has attained the value  $r_{\max}$ . Denoting by  $t_1$  and  $(r_1, \theta_1)$  the moment and the position in which the gas combustion and the thrust stop, the duration of the gas combustion  $t_1$  has the value

$$t_1 = \frac{1}{\alpha} \ln \frac{m_0}{m_1} \quad (32)$$

while the distance  $r_1$  may be found by

$$\int_{r_0}^{r_1} \frac{r dr}{\sqrt{r^3 + \frac{h}{2\alpha w} r^2 + \frac{\mu r}{\alpha w} - \frac{o^2}{2\alpha w}}} = \frac{\sqrt{2\alpha w}}{\alpha} \ln \frac{m_0}{m_1} \quad (33)$$

Eq. (33) is transformed into a non-algebraic equation which inclu-

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des in addition to the elementary functions also the elliptic integrals of the first and second species which complicates the determination of  $r_1$  and  $\theta_1$ . The value of  $r_1$  may be ascertained by approximative methods, and is finally expressed by:

$$r_1 = r_0 \frac{(\Delta_1^2 + \Delta - 1)^2}{4\Delta \Delta_1^2} \quad (36)$$

in which  $\Delta$  and  $\Delta_1$  are given by

$$\Delta = \frac{N}{M}, \quad \Delta_1 = \left(1 + \sqrt{\Delta}\right) \left(\frac{m_0}{m_1}\right)^{\frac{1}{\alpha}} \sqrt{\frac{N}{r_0}}$$

$$\text{The author then uses the notation } B = \frac{1}{2} \left( \frac{2}{r_0} - v_0^2 \right) \quad (40) \quad \times$$

Where  $B < (r_1 - r_0) \propto w$ , the trajectory is hyperbolic. If  $B > (r_1 - r_0) \propto w$ , the trajectory is elliptic. Where the launching angle  $\beta_1$

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fulfills the non-equality

$$\left(1 - \frac{r_1^2 \sin^2 \beta_1}{R^2}\right) \frac{R r_1 v_1^2}{2\mu(r_1 - R)} < 1 \quad (41)$$

the elliptic trajectory does not intersect the Earth and the rocket becomes an Earth satellite. Where  $B = (r_1 - r_0)\alpha w$ ,  $H = 0$ , and  $v_1^2 = \frac{2}{r_1}$ , the rocket's trajectory is parabolic. By knowing the

starting conditions of the rocket, the trajectory of this rocket with variable and radial thrust may be accurately determined. In the case of hyperbolic and parabolic trajectories, the rocket may become an artificial planet, but in the case of an elliptic trajectory the rocket has good chances of return to Earth. There are 1 figure and 6 Soviet-bloc references.

ASSOCIATION: Universitate Babeş-Bolyai (Babeş-Bolyai University)  
in Cluj

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"APPROVED FOR RELEASE: 06/09/2000

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